

IN THE CLAIMS:

The following claims will replace all prior versions of claims in this application.

1-3. (Cancelled)

4. (Currently Amended) A method for separation of chemical substances and/or particles, comprising the step of: applying an electric field to a microfluid system consisting of a plurality of adjoining sheets liquid or gel lamellae of two or more different phases, perpendicular to the phase boundaries.

5. (Cancelled)

6. (Currently Amended) The method according to claim 4, wherein the individual phases are parallel arranged liquid or gel sheets lamellae of a thickness in the submillimeter range or smaller.

7-11. (Cancelled)

12. (Previously Presented) The method according to claim 4, wherein different concentrations of a substance having a given physicochemical affinity for the substances or particles or a combination thereof being separated are adjusted in the phases.

13. (Currently Amended) The method according to claim 12 wherein the individual phases are parallel arranged liquid or gel sheets lamellae of a thickness in the submillimeter range or smaller.

14-18. (Cancelled)

19 (New) The method according to claim 4, wherein the lamellae consist of liquids.